

# ERP TRACKING TABLE - CONTRACT AGENCY SUMMARY

Contracting Agency	CALFED Approved Funding	CALFED Funds Obligated	CALFED Funds Expended	CVPIA Funding	Other Funding
<b>CUWA</b>					
Summary for 'Contracting Agency' = CUWA (41 detail records)					
Sum	\$27,958,105	\$21,499,930	\$14,084,744	\$20,033,233	\$22,894,522
<b>NFWF</b>					
Summary for 'Contracting Agency' = NFWF (37 detail records)					
Sum	\$32,446,384	\$25,403,572	\$9,402,752	\$255,000	\$2,379,100
<b>NRCS</b>					
Summary for 'Contracting Agency' = NRCS (2 detail records)					
Sum	\$2,445,000	\$2,445,000	\$24,000	\$0	\$1,500,000
<b>PROP 204</b>					
Summary for 'Contracting Agency' = PROP 204 (32 detail records)					
Sum	\$21,001,825	\$17,360,931	\$4,525,971	\$4,344,000	\$5,628,312
<b>USBR</b>					
Summary for 'Contracting Agency' = USBR (69 detail records)					
Sum	\$95,056,635	\$72,511,767	\$19,400,804	\$1,380,000	\$19,041,660
<b>USCOE</b>					
Summary for 'Contracting Agency' = USCOE (4 detail records)					
Sum	\$4,115,000	\$2,000,000	\$1,701,000	\$0	\$0
<b>USEPA</b>					
Summary for 'Contracting Agency' = USEPA (19 detail records)					
Sum	\$4,109,650	\$4,109,650	\$964,157	\$0	\$431,000
<b>USFWS</b>					
Summary for 'Contracting Agency' = USFWS (35 detail records)					
Sum	\$28,598,156	\$23,960,668	\$5,449,771	\$6,568,759	\$7,712,697
<b>Grand Total</b>	<b>\$215,730,755</b>	<b>\$169,291,518</b>	<b>\$55,553,199</b>	<b>\$32,580,992</b>	<b>\$59,587,291</b>

# ERP TRACKING TABLE REPORT

CALFED No	Category	Project Description	Applicant	Geo Area	Approved Funding	Funds Obligated	Funds Expended	CVPIA Funding	Other Funding	Monitoring	Status
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CUWA

95-M02	Fish Screen/Passage	Fish Screen and Ladder Construction	Durham Mutual	Butte Basin	\$316,500	\$316,500	\$464,720			For Butte Creek system, 100,000 juvenile spring-run have been marked. Also evaluation of fish behavior at ladder entrance was completed.	Project Completed.
95-M05	Fish Screen/Passage	Pump Station Relocation Construction	M&T Ranch/Parrott Investments Co.	Butte Basin	\$1,610,000	\$1,610,000	\$2,254,000	\$1,610,000		A separate AFRP monitoring plan. NMFS monitored velocity on screen face. Improve and restore spawning habitat and durability. Conduct redd counts and other use surveys.	Project Completed.
95-M06	Environmental Water Quality	Implementing programs to reduce the use of pesticides and fertilizers in Sacramento and San Joaquin watersheds (BIO5)	Community Alliance with Family Farmers	Landscape	\$660,000	\$660,000	\$659,770	\$0		Monitoring of progress of willingness of farmers to reduce pesticide use is being documented.	Year 2 of 3 year project. Final deliverables due 12/99.
95-M07	Fish Screen/Passage	Fish Screen Construction	Suisun Resource Conservation District & North Bay	Suisun Marsh	\$450,000	\$450,000	\$450,000	\$450,000		Suisun Resource Conservation District has long-term monitoring program. Reduce entrainment. Measure screen approach, sweep and bypass flow velocities.	Project Completed.
95-M08	Fish Management/Hatchery	Winter-run Chinook Salmon Captive Broodstock Program	DWR	Landscape	\$300,000	\$300,000	\$284,000	\$0		Research protocols are peer-reviewed.	Project Completed.
95-M01	Fish Screen/Passage	Construct Siphon & Associated Improvements.	Western Canal Water District	Butte Basin	\$3,095,873	\$3,095,873	\$2,986,067	\$3,095,873	\$3,265,873	Monitoring plan has been designed and is underway. Reduce entrainment. Measure screen approach, sweep and bypass flow velocities.	Project Completed.
96-M02	Habitat Restoration	Prospect Island - Shallow Water Habitat/Wetlands Restoration Plan	DWR	Delta	\$2,500,000	\$2,500,000	\$0	\$0		Design, implement and monitor restoration of shallow water habitat/wetlands on Prospect Island.	Expect contract execution in near future.
96-M03	Habitat Restoration	Riparian Habitat Restoration Verona-Collinsville (Phase 1-Fees.)	USCOE	Sacramento River	\$500,000	\$500,000	\$237,725	\$0		Demonstration project will monitor riparian habitat	Ready for Corps of Engineer work to be performed.
96-M04	Fish Screen/Passage	Princeton Pumping Plant Fish Screen (Phase 1-Fees.)		Sacramento River	\$75,000	\$75,000	\$75,000	\$150,000	\$100,000	Reduce entrainment measure screen approach, sweep and bypass flow velocities.	Project Completed.
96-M05	Fish Screen/Passage	Fish Screen -Feasibility Engineering	Princeton-Codora-Gleann / Provident Irrigation Districts	Sacramento River	\$75,000	\$75,000	\$75,000	\$75,000	\$0	Monitoring does not apply to a feasibility study.	Project Completed.

Monday, November 01, 1999

CALFED No	Category	Project Description	Applicant	Geo Area	Approved Funding	Funds Obligated	Funds Expended	CVPIA Funding	Other Funding	Monitoring	Status
96-M06	Habitat Restoration	Cosumnes River Preserve (Valensin Ranch Acquisition)	The Nature Conservancy	Eastside Delta Tributaries	\$1,500,000	\$1,500,000	\$1,500,000	\$1,250,000	\$9,250,000	Restore and improve floodplain functions. Restore riparian and wetland vegetation. Monitor vegetation, fish and wildlife populations.	Project Completed.
96-M07	Fish Screen/Passage	Fish Screen Construction	Princeton-Codora-Glenn / Provident Irrigation Districts	Sacramento River	\$5,500,000	\$5,500,000	\$3,503,773	\$5,281,200	\$0	Screen will have velocity monitoring. Owner will conduct fyke netting for fish counts.	Project granted time extension to 12/31/2000.
96-M08	Fish Screen/Passage	Fish Screen Construction (Phase 2 - Install Additional Screens)	Suisun Resource Conservation District	Suisun Marsh & North Bay	\$500,000	\$500,000	\$0	\$500,000	\$0	Suisun Resource Conservation District has long-term monitoring program. Reduce entrainment. Measure screen approach, sweep and bypass flow velocities.	Steering Committee recommended rescinding funds.
96-M09	Habitat Restoration	Sherman Island - Levee Habitat Demonstration Project	DWR	Delta	\$480,000	\$480,000	\$76,266	\$0	\$480,000	Riparian habitat will be monitored for growth and endurance.	Bids exceed budget. Steering Committee denied request for additional funding. Proponent evaluating next step.
96-M10	Habitat Restoration	Research to Predict Evolution of Restored Diked Wetlands	University of Washington	Delta	\$575,172	\$575,172	\$241,086	\$0	\$0	Project develops conceptual model based on field investigations.	Steering Committee approved additional \$100,172 for additional fisheries and bird field work.
96-M11	Fish Management/Hatchery	Applied Research to Identify Chinook Salmon Runs via Genetics	DWR	Landscape	\$450,000	\$450,000	\$0	\$0	\$600,000	Research protocols are peer-reviewed.	Project is underway.
96-M12	Fish Management/Hatchery	Battle Creek - Chinook Salmon & Steelhead Restoration Study	Bill Keir Associates	North Sacramento Valley	\$306,000	\$306,000	\$306,000	\$0	\$0	Monitoring is part of a recently approved Battle Creek project. See 98-B16.	Project Completed.
96-M13	Habitat Restoration	Yolo Bypass - Habitat Restoration Study	DWR	Delta	\$226,000	\$226,000	\$226,000	\$0	\$30,000	Restore and improve floodplain functions. Restore riparian and wetland vegetation. Monitor vegetation, fish and wildlife populations.	Project assigned to NFWF. Project completed.
96-M14	Habitat Restoration	Clear Creek - Property Acquisition	Western Shasta RCD	North Sacramento Valley	\$211,000	\$211,000	\$211,000	\$211,000	\$0	Restore and improve floodplain functions. Restore riparian and wetland vegetation. Monitor vegetation, fish and wildlife populations.	Project assigned to NFWF. Project completed.
96-M15	Introduced & Undesirable Species	Intro. of Non-indigenous Aquatic Species Research Program	San Francisco Estuary Institute	Landscape	\$197,000	\$197,000	\$184,650	\$0	\$0	Reports are peer-reviewed.	Project 90% complete.
96-M16	Habitat Restoration	Sacramento River and Major Trib.- Corridor Mapping Project	CSU, Chico	Sacramento River	\$145,200	\$145,200	\$61,342	\$0	\$0	Products meet mapping standards.	Project 80% complete.
96-M17	Fish Screen/Passage	Yuba River Fish Screen Replacement	Browns Valley Irrigation District	Feather River & Sutter Basin	\$114,750	\$114,750	\$80,857	\$114,750	\$116,500	Reduce entrainment. Measure screen approach, sweep and bypass flow velocities.	Project 95% complete.

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96-M18	Environmental Water Quality	Determine Effects of Toxics	Phyllis Fox & Associates	Landscape	\$110,000	\$110,000	\$15,000	\$0	\$0	Project terminated.	Steering Committee terminated project - agreement could not be reached on project scope.
96-M19	Fish Screen/Passage	Wilkins Slough - Fish Screen Prelim. Design	RD 108	Sacramento River	\$100,000	\$100,000	\$100,000	\$100,000	\$16,300	Monitoring does not apply to a feasibility study.	Project Completed.
96-M20	Fish Screen/Passage	Fish Screen Project	Banta-Carbona Irrigation District	San Joaquin River	\$100,000	\$100,000	\$0	\$1,916,750	\$0	Reduce entrainment of outmigrating and resident fish. Measure screen approach, sweep and bypass flow velocities.	Funding rescinded by mutual consent due to timing.
96-M21	Fish Screen/Passage	Adams Dam Fish Screen & Ladder	El Escalon Ranch	Butte Basin	\$70,304	\$70,304	\$70,301	\$0	\$50,000	Draft monitoring plan for physical and biological monitoring has been completed by owner. Reduce entrainment. Measure screen approach, sweep and bypass flow velocities.	Project Completed.
96-M22	Fish Screen/Passage	Gorrill Dam Fish Screen & Ladder	Gorrill Ranch	Butte Basin	\$67,990	\$67,990	\$61,191	\$0	\$56,500	Draft monitoring plan for physical and biological monitoring has been completed by owner. Reduce entrainment. Measure screen approach, sweep and bypass flow velocities.	Project Completed.
96-M23	Fish Screen/Passage	Innovative Fish Screen for Small Diversions Demonstration Project	Jim Buell & Associates	Landscape	\$90,000	\$90,000	\$51,773	\$0	\$0	Research protocols are peer-reviewed.	Project will be complete at 60% of work due to ESA concerns.
96-M24	Watershed Management	Butte Creek - Watershed Management Strategy Plan	CSU, Chico	Butte Basin	\$83,000	\$83,000	\$57,722	\$0	\$83,000	Existing conditions report and recommendation for future action including monitoring.	90% complete.
96-M25	Watershed Management	Battle Creek - Chinook Salmon & Establish Watershed Conservancy	Western Shasta RCD	North Sacramento Valley	\$50,000	\$50,000	\$40,104	\$50,000	\$0	Monitoring is part of a recently approved Battle Creek project. See 98-B16.	50% complete.
96-M26	Habitat Restoration	Prospect Island - Develop Monitoring Plan	DWR	Delta	\$35,000	\$35,000	\$35,000	\$0	\$0	Monitoring plan is complete.	Project Completed.
96-M27	Habitat Restoration	North Delta Area - Juvenile Salmon Rearing	CSU, Sacramento	Delta	\$24,500	\$24,500	\$19,048	\$0	\$0	Inventory of rearing habitat for fisheries, including fisheries surveys.	Field work complete.
97-M01	Fish Screen/Passage	Wilson Ranch screen	Deseret Farms of Calif.	Sacramento River	\$200,000	\$0	\$0	\$0	\$0	Reduce entrainment of outmigrating fish. Measure screen approach, sweep, and bypass flow velocities.	Draft contract sent to Deseret Farms of California.
97-M02	Fish Screen/Passage	Battle Creek screens and fish passage	DWR	North Sacramento Valley	\$395,000	\$395,000	\$0	\$0	\$0	See 98-B16. DWR has completed first phase of work.	DWR has completed first phase of work; remaining work in progress. Also funded with 99-B16

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97-M03	Fish Screen/Passage	Gorri Dam screen and ladder	Gorri Land Company	Butte Basin	\$369,641	\$369,641	\$332,677	\$755,948	\$268,318	Reduce entrainment of outmigrating fish. Measure screen approach, sweep, and bypass flow velocities. Increase upstream passage of returning adults.	Project is complete.
97-M04	Fish Screen/Passage	Adams Dam screen and passage	Ducks Unlimited, Inc.	Butte Basin	\$217,000	\$217,000	\$216,892	\$508,192	\$171,000	Increase upstream passage of returning adults. Monitoring of fish behavior at the entrance of and movement through the ladder. Reduce entrainment of outmigrating fish. Measure screen approach, sweep, and bypass flow velocities.	Project is complete.
97-M05	Fish Screen/Passage	Saeltzer Dam Fish Passage	Townsend Flat Water Ditch Company	North Sacramento Valley	\$138,200	\$0	\$0	\$0	\$0	Increase upstream passage of returning adults. Monitoring of fish behavior at the entrance of and movement through the ladder. Reduce entrainment of outmigrating fish. Measure screen approach, sweep, and bypass flow velocities.	USBR undertaking environmental and permitting tasks; so CUWA's funding for this project was reduced by about \$100,000. Project on hold until negotiations between Townsend Flat Water Ditch Co. and USBR regarding water rights are concluded.
97-M06	Fish Screen/Passage	Hastings Tract screen feasibility study	Hastings Island Land Company	Delta	\$27,000	\$0	\$0	\$0	\$0	Reduce entrainment of outmigrating fish. Measure screen approach, sweep, and bypass flow velocities. Increase upstream passage of returning adults.	Draft contract being prepared. Waiting for response from Hastings.
97-M07	Fish Screen/Passage	Banta-Carbona fish screen	Banta-Carbona Irrigation District	San Joaquin River	\$938,875	\$0	\$0	\$0	\$0	Reduce entrainment of outmigrating fish. Measure screen approach, sweep, and bypass flow velocities. Increase upstream passage of returning adults.	Received proponents indication of desire to proceed. Contract under preparation.
97-M08	Habitat Restoration	Tuolumne River channel restoration (Pool 9)	Turlock Irrigation District	East San Joaquin	\$2,353,100	\$0	\$0	\$0	\$0	Increase survival of outmigrating smolts. Monitor temperature and water quality, pre and post project. Conduct mark/recapture experiments. Protect and restore spawning habitats and their durability. Monitor flows and geomorphic and channel characteristics pre and post project. Survey spawning activity, pre and post project.	Negotiating a change of scope for review by CALFED.

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97-M09	Habitat Restoration	Tuolumne River setback levees and channel restoration	Turlock Irrigation District	East San Joaquin	\$2,801,000	\$0	\$0	\$2,855,800	\$50,000	Increase survival of outmigrating smolts. Monitor temperature and water quality, pre and post project. Conduct mark/recapture experiments. Protect and restore spawning habitats and their durability. Monitor flows and geomorphic and channel characteristics pre and post project. Survey spawning activity, pre and post project.	Negotiating a change of scope for review by CALFED. Also funded with 98-F06

Summary for 'Contracting Agency' = CUWA (41 detail records)

Sum					\$27,958,105	\$21,499,930	\$14,084,744	\$20,033,233	\$22,894,522		
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#### NFWF

97-N01	Environmental Water Quality	Assessment and implementation of urban use reduction of diazion and chlorpyrifos (Sacramento County)	Sacramento Area Stormwater Permittees	Sacramento River	\$663,500	\$663,500	\$64,414	\$0	\$193,000	Characterize baseline temporal and spatial trends of OP Pesticide runoff in the Sacramento region. Concentration during various conditions and at various locations pre project. Evaluate effect of OP Pesticide control program on the water quality conditions. Concentration during various conditions and at various locations post project. Evaluate if the level/conditions are significant contributors to toxicity. Cerodaphnia toxicity tests.	Contract signed 8/29/98, received QAQC, need to review 2 draft subcontracts.
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CALFED No	Category	Project Description	Applicant	Geo Area	Approved Funding	Funds Obligated	Funds Expended	CVPIA Funding	Other Funding	Monitoring	Status
97-N02	Habitat Restoration	Sacramento River floodplain acquisition and riparian restoration	WCB, USFWS, The Nature Conservancy	Sacramento River	\$9,879,800	\$9,879,800	\$6,066,214	\$0	\$0	Increase extent of channel meander and flood zones. Mapping of aquatic and terrestrial habitats. Increase native riparian growth and reduce exotic distribution adjacent to the river. Measure tree density and species composition and height, pre and post project. Measure exotic weed cover, pre and post project. Measure floor litter quality and quantity to evaluate accumulation and Carbon/Nitrogen ratios, pre and post project. Conduct point counts and areas searches for songbird populations and habitat characteristics as indicator of ecological health. Groundwater piezometers samples for evaluating water quality adjacent to restoration area, pre and post project and adjacent sites.	Two properties purchased.
97-N03A	Habitat Restoration	Sacramento River acquisition and riparian forest restoration	USFWS, The Nature Conservancy	Sacramento River	\$780,000	\$780,000	\$625,858	\$0	\$0	Same as 97-N02	Contract signed 12/8/98. Property acquired and restoration project begun.
97-N03B	Habitat Restoration	Sacramento River floodplain acquisition and riparian restoration	WCB	Sacramento River	\$512,500	\$512,500	\$0	\$0	\$0	Same as 97-N02	Contract executed.
97-N04	Habitat Restoration	Sacramento River meander restoration	The Nature Conservancy	Sacramento River	\$898,700	\$898,700	\$816,800	\$0	\$0	Same as 97-N02	Contract signed 10/28/98. Property purchased. Completing subcontracts for site preparation and planting.
97-N05	Habitat Restoration	Restoration planning (M and N Fork American River, Auburn Ravine, Coon Creek)	Placer County	American River Basin	\$222,530	\$222,530	\$0	\$0	\$222,530	Evaluate restoration needs toward the protection and improvement in water quality, aquatic habitat and its accessibility, and riparian communities.	Contract executed 3/29/99.
97-N06	Habitat Restoration	Butte Creek acquisition and riparian restoration	CSU, Chico	Butte Basin	\$187,128	\$187,128	\$158,395	\$0	\$135,000	Protect riparian habitat. Monitor revegetation. Similar to 97-N02.	Contract signed 12/21/98. Property acquired. Also funded with 98-F03.
97-N07	Habitat Restoration	Cottonwood Creek Channel Restoration Planning	Graham Matthews & Associates	Cottonwood Creek	\$61,000	\$61,000	\$20,081	\$0	\$10,000	Describe geomorphic conditions and changes in region toward development of channel and riparian restoration plan. Survey of geomorphic and riparian characteristics, current and historical, and eventually post project.	Contractor signed 7/1/98. Work is ongoing.

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97-N08	Habitat Restoration	Lower Mill Creek riparian restoration	Mill Creek Conservancy, The Nature Conservancy	Butte Basin	\$69,000	\$69,000	\$1,899	\$30,000	\$109,670	Increase native riparian growth adjacent to the river. Measure tree density and species composition and height, pre and post project.	Contract signed 12/29/98. Property acquired. Also funded with 98-F04
97-N09	Environmental Water Quality	Monitoring of Delta contaminants	San Francisco Baykeeper	Delta	\$100,000	\$100,000	\$35,858	\$0	\$20,000	Evaluate toxicity and water quality in the Delta. Collect samples quarterly from various river and slough sites in the Delta for subsequent lab testing for contaminants and toxicity (fathead minnow larval growth and survival, ceriodaphnia reproduction)	Contract signed 8/18/98. Monitoring has begun.
97-N10	Habitat Restoration	Jepson Prairie restoration and conservation plan	Solano County Farmlands, Open Space Foundation	Delta	\$244,801	\$244,801	\$26,211	\$0	\$0	Restore habitat. Monitor vegetation/tree survivorship, abundance, size and distribution, pre and post project and comparison to control.	Contract signed 1/29/99. Plans prepared and restoration underway.
97-N11	Habitat Restoration	In-Channel Island restoration/demonstration	Association of Bay Area Governments	Delta	\$270,270	\$270,270	\$199,594	\$0	\$91,000	Demonstrate effective biotechnical methods to reduce erosion of in-channel islands and adjacent delta island banks. Visual observation of wave and current energy, pre and post project for different application practices for different hydrodynamic conditions. Field mapping and sediment deposition/accretion pre and post project and compare with control. Survey of fish and wildlife use and breeding, including invasive non-native species. Demonstrate that installations can be installed while minimizing impact to existing ecological values. Pre and post project surveys of fisher and terrestrial biota. Survey for vegetation colonization and succession.	Contract signed 7/15/98. Plan Complete.
97-N12	Habitat Restoration	Franks Tract restoration	Moffat and Nichol Engineers, DPR, DWR	Delta	\$231,500	\$231,500	\$76,873		\$370,000	Restoration of deeply flooded habitat to tidal perennial aquatic, shaded riverine aquatic, and mid channel island shoal and shoal habitats. TBD - Physical/geomorphological characteristics of islands.	Contract signed 12/29/98.



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97-N13	Habitat Restoration	Tyler Island levee protection and habitat restoration pilot project	Habitat Assessment & Restoration Team, Inc	Delta	\$885,202	\$885,202	\$273,065	\$0	\$0	Evaluate alternative vegetative and biotechnical techniques for restoring and stabilizing levee and bank erosion and riparian and shallow water habitat. Measure boat wake energy dissipation for different installation practices, compare with control. Measure sediment deposition occurring with different installation practices, compare with control and different locations. Survey macroinvertebrate and fishery population for the different installation practices, compare with control and different locations. Survey survival and growth of vegetation between different installation practices, compare with control and different locations.	Contract signed 7/22/98. Levee restoration and planting nearly complete.
97-N14	Habitat Restoration	Cosumnes start-up stewardship and restoration	WCB, The Nature Conservancy	Eastside Delta Tributaries	\$1,975,100	\$1,975,100	\$0	\$0	\$0	Conduct baseline monitoring of riparian vegetation, wildlife, avian and fish resources	Contract signed 6/22/99
97-N16	Habitat Restoration	Bay Point shoreline Restoration Plan	East Bay Regional Park District	Suisun Marsh & North Bay	\$185,000	\$185,000	\$0	\$0	\$53,900	Restore tidal salt marsh habitat and function. Monitor tidal flow and range over time. Monitor water quality and sedimentation processes over time. Monitor changes in plant species diversity, density and cover. Survey use by fish and wildlife over time.	Contract signed 8/12/98.
97-N18	Habitat Restoration	Cullinan Ranch restoration	Ducks Unlimited, Inc.	Suisun Marsh & North Bay	\$368,500	\$368,500	\$0	\$0	\$662,000	See 97-N16	Contract executed 3/30/99.
97-N19	Habitat Restoration	Tolay Creek restoration	Ducks Unlimited, Inc.	Suisun Marsh & North Bay	\$283,000	\$283,000	\$232,090	\$0	\$422,000	See 97-N16	Contract and first task order approved by CALFED and signed 10/16/98. Construction complete.

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97-N20	Environmental Water Quality	Implementing programs to reduce the use of pesticides and fertilizers in Sacramento and San Joaquin watersheds	Community Alliance with Family Farmers	Landscape	\$1,680,631	\$1,680,631	\$594,079	\$0	\$0	Increase awareness of users to detrimental impacts and mitigation approaches. User survey on past and post-project application. Evaluate different application techniques and their impact on runoff water quality, develop protocols and models. Water quality and flow measurements in surface water adjacent to sites. Increase farmer awareness of impacts of pesticide use and alternatives to reduce water quality problems in the Central Valley, and San Joaquin basin.	Contract signed 7/20/98. Task 1-3 almost complete, transitioning to BIOS program.
97-N21	Habitat Restoration	Knights Ferry gravel replenishment	Carl Mesick Consultants	East San Joaquin	\$536,410	\$536,410	\$191,175	\$0	\$90,000	Improve spawning habitat quality and quantity, and evaluate conditions for successful and durable restoration. Map redd locations and changes over time and under different gravel supply conditions, at various sites. Measure transect and vertical hydraulic gradient during spawning period and after incubation at various sites. Improve incubation habitat and conditions by adding gravel with no fines. Intergravel water temperatures, flows, DO levels, substrate size, fine sediment intrusion at various sites.	Contract signed 9/30/98. Gravel placement almost complete, monitoring has begun.
98-N01	Fish Screen/Passage	RD 2035 Fish Screen	RD 2035	Sacramento River	\$100,000	\$100,000	\$0	\$225,000	\$0	Reduce entrainment of outmigrating fish. Measure screen approach, sweep, and bypass flow velocities.	Contract executed 3/31/99.
98-N02	Habitat Restoration	Expanding California Salmon Habitat to Alter Dams and Diversions	Institute for Fisheries Resources	Landscape	\$49,000	\$49,000	\$20,146	\$0	\$0	Research project to inventory and develop a mechanism to purchase dams and diversions from willing sellers to improve fish passage	Contract signed 3/12/99.
98-N03	Fish Management/Hatchery	Life History and Stock Composition of Steelhead Trout	Yuba Co. Water Agency	Feather River & Sutter Basin	\$120,000	\$120,000	\$0	\$0	\$0	Characterization of steelhead habitat and life history patterns in the Yuba River. Trap fish through year, and then measure and collect scale and tissue samples for evaluation. Genetic data for steelhead.	Contract signed 6/9/99.

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98-N04	Fish Screen/Passage	Small Fish Screen Evaluation	Pelgar Mutual Water Company	Sacramento River	\$95,000	\$0	\$0	\$0	\$0	Evaluate the effect of screening small screen diversion. Fyke net and live box sampling at screened and unscreened diversions at various hydraulic and operating conditions.	Contract sent to contractor for signature on 3/26/99. Project delayed due to damage to fish screen.
99-N01	Fish Screen/Passage	ACID Fish Screen	Anderson-Cottonwood Irrigation District	Sacramento River	\$5,100,000	\$5,100,000	\$0	\$0	\$0	Reduce entrainment of outmigrating fish. Measure screen approach, sweep, and bypass flow velocities. Evaluate the impact of shallow water restoration actions on water quality. Collect and conduct physical/chemical analysis of water and soil samples.	Contract signed 8/3/99. RFP for construction has been sent.
99-N02	Fish Screen/Passage	Fish Treadmill Developed Fish Screen Criteria for Native Sacramento-San Joaquin Watershed Fishes	UC Davis	Landscape	\$823,000	\$0	\$0	\$0			Contracting being prepared.
99-N03	Habitat Restoration	East Delta Habitat Corridor (Georgiana Slough)	Habitat Assessment & Restoration Team, Inc	Landscape	\$1,100,000	\$0	\$0	\$0			Contracting being prepared.
99-N04	Habitat Restoration	Lake Red Bluff Riparian Area Restoration & Education Support Project	Calif. Coastal Conservancy	Sacramento River	\$29,114	\$0	\$0	\$0			Contracting being prepared.
99-N05	Habitat Restoration	Reintroduction of Endangered Soft Bird's Beak to Restored Habitat	UC Davis	Suisun Marsh & North Bay	\$148,627	\$0	\$0	\$0			Contracting being prepared.
99-N06	Habitat Restoration	Linked Hydrogeomorphic Ecosystem Models to Support Adaptive Management	UC Davis	Eastside Delta Tributaries	\$1,546,016	\$0	\$0	\$0			Contracting being prepared.
99-N07	Environmental Water Quality	Chronic Toxicity of Environmental Contaminants in Sacramento Splittail - A Biomarker Approach	UC Davis	Suisun Marsh & North Bay	\$673,684	\$0	\$0	\$0			Contracting being prepared.
99-N08	Environmental Water Quality	Assessment of Pesticide Effects on Fish & Their Food Resources in the Sacramento/San Joaquin Delta	UC Berkeley	Landscape	\$1,586,894	\$0	\$0	\$0			Contracting being prepared.
99-N09	Introduced & Undesirable Species	Effects of introduced Species of Zooplankton & clams on the Bay-Delta Food Web	SF State University	Landscape	\$653,384	\$0	\$0	\$0			Contracting being prepared.
99-N10	Introduced & Undesirable Species	Assessing Ecological & Economic Impacts of the Chinese Mitten crab	UC Berkeley	Landscape	\$113,033	\$0	\$0	\$0			Contracting being prepared.

CALFED No	Category	Project Description	Applicant	Geo Area	Approved Funding	Funds Obligated	Funds Expended	CVPIA Funding	Other Funding	Monitoring	Status
99-N11	Introduced & Undesirable Species	Purple Loosestrife Prevention, Detection & Control Actions for the Sacramento-San Joaquin River Delta System	DFA	Landscape	\$127,473	\$0	\$0	\$0			Contracting being prepared.
99-N12	Fish Management/Hatchery	Central Valley Steelhead Genetic Evaluation	DFG	Landscape	\$70,636	\$0	\$0	\$0			Contracting being prepared.
99-N13	Fish Management/Hatchery	Development of a Comprehensive Implementation Plan for a Statistically Designed Marking & Recovery Plan	DFG	Landscape	\$75,951	\$0	\$0	\$0			Contracting being prepared.
Summary for 'Contracting Agency' = NFWF (37 detail records)											
Sum					\$32,446,384	\$25,403,572	\$9,402,752	\$255,000	\$2,379,100		
NRCS											
98-R01	Fish Screen/Passage	Small Diversion Fish Screen Program	NRCS	Delta	\$900,000	\$900,000	\$24,000	\$0	\$0	Reduce entrainment of outmigrating and resident fish. Measure screen approach, sweep, and bypass flow velocities.	Funds will be used to complete existing projects. New projects will be recruited through NRCS process.
99-R01	Habitat Restoration	Floodplain Easements; Lower Tuolumne and San Joaquin (DA9)	NRCS	East San Joaquin	\$1,545,000	\$1,545,000	\$0	\$0	\$1,500,000	Acquire and restore area prone to flood damage. Monitor vegetation and wildlife populations.	Contract being prepared. Project underway.
Summary for 'Contracting Agency' = NRCS (2 detail records)											
Sum					\$2,445,000	\$2,445,000	\$24,000	\$0	\$1,500,000		
PROP 204											
97-C01	Fish Screen/Passage	RD 108 screen construction	RD 108	Sacramento River	\$2,500,000	\$2,500,000	\$2,256,077	\$3,800,000	\$0	Reduce entrainment of outmigrating fish. Measure screen approach, sweep, and bypass flow velocities.	Construction 96% complete. Completed Amendment to extend contract 6 mos. through 12/31/99. High water levels delayed completion of construction but will be completed in 11/99.
97-C02	Fish Screen/Passage	Princeton Fish screen construction	RD 1004	Sacramento River	\$1,750,000	\$1,750,000	\$1,469,027	\$544,000	\$2,675,000	Reduce entrainment of outmigrating and resident fish. Measure screen approach, sweep, and bypass flow velocities.	Construction complete. Start-up testings complete.

CALFED No	Category	Project Description	Applicant	Geo Area	Approved Funding	Funds Obligated	Funds Expended	CVPIA Funding	Other Funding	Monitoring	Status
97-C03	Watershed Management	Watershed management planning for Sacramento River Riparian Program	DWR	Sacramento River	\$200,000	\$200,000	\$0	\$0	\$0	Facilitate broadbased local stakeholder group in development of watershed plan. Participation and extent of implementation activities. Protect and enhance riparian habitat. Measure riparian density and species composition, pre and post project.	Fully executed 8/4/98. DWR completed subcontract with Chico State for the program.
97-C04A	Fish Screen/Passage	Selected fish screens	DFG	Sacramento River	\$374,850	\$374,850	\$28,955	\$0	\$0	Reduce entrainment of outmigrating and resident fish. Measure screen approach, sweep, and bypass flow velocities.	Fully executed contract for small screens for 374,850 on 2/2/99. One fish screen is 40% complete & other work is proceeding.
97-C04B	Fish Screen/Passage	Selected fish screens	DWR	Suisun Marsh & North Bay	\$2,784,600	\$0	\$0	\$0	\$151,000	Reduce entrainment of outmigrating fish. Measure screen approach, sweep, and bypass flow velocities.	DFG cannot contract for fish screen construction over \$500,000. Suisun marsh screens will be withdrawn until a new project proponent has been selected and project plans finalized. They will resubmit as a potential directed program.
97-C05	Environmental Water Quality	Effects of wetlands restoration on methyl mercury levels	UC Davis	Delta	\$546,171	\$546,171	\$68,602	\$0	\$0	Evaluate relationship of physical, chemical and biological gradients on methyl mercury production and bioaccumulation. Sample levels of mercury in bioindicator species from various sites in the Delta. Sample sediment cores from various sites and locations in the Delta will be used in mercury methylation experiments.	Completed purchase of mercury analyzer & have verified analytical methods. Field sampling & field sample analysis ongoing. Have completed 1st year summary report. Started mercury methylation experiments.
97-C06	Environmental Water Quality	Contaminant effects on smelt	UC Davis	Delta	\$437,326	\$437,326	\$6,112	\$0	\$0	Evaluate the potential impact of contaminants on Delta smelt. Obtain samples and evaluate using histopathology, genetic and otolith analyses. Evaluate exposure of young smelt to chemical commonly found in Delta.	Archived smelt analysis started. Sampling conducted in cooperation w/ IEP & analysis of samples started.
97-C07	Introduced & Undesirable Species	Preventing exotic introductions from ballast water	UC Sea Grant Extension Program	Landscape	\$222,830	\$222,830	\$13,236	\$0	\$63,885	Increase maritime industry members' awareness of ballast release issues and alternative practices to reduce new introduction into the Delta. Participation and effectiveness surveys.	First newsletter completed, first video-conference & ballast forum held.

CALFED No	Category	Project Description	Applicant	Geo Area	Approved Funding	Funds Obligated	Funds Expended	CVPIA Funding	Other Funding	Monitoring	Status
97-C08	Environmental Water Quality	San Joaquin River real-time water quality management program	DWR	San Joaquin River	\$931,857	\$931,857	\$0	\$0	\$0	Increase water user awareness of real time data and its beneficial use. Survey participation, use of data base and changes in load adjustments. Reduce water quality excursion in the SJ Delta system as real time data is utilized. Measure water quality conditions and variances over time. Monitor New Melones water operations for net decrease in releases following a forecast.	Water quality sampling and analysis ongoing. San Joaquin River Real-time Water Quality Forecast available on web to MOU cosigners each week.
97-C09	Fish Management/Hatchery	Developing a genetic baseline for San Joaquin salmon	DFG	San Joaquin River	\$387,003	\$387,003	\$0	\$0	\$600,000	Characterize the genetic makeup of SJ Fall run chinook salmon. Collect and analyze tissue samples from populations over 3 year period.	Contract fully executed by 2/1/99. Project has been delayed & they have requested a time extension. Genetic analysis started Aug 1999.
97-C11	Habitat Restoration	Gravel at Basso Bridge	DFG	East San Joaquin	\$250,975	\$250,975	\$4,095	\$0	\$22,100	Improve the quality and quantity of spawning habitat, use, and durability. Redds survey; visual observation; carcass surveys - pre and post project. Monitor channel and geomorphic characteristics (pebble counts, bulk samples, profiles), pre and post project and over time. Insert storage of gravel will be transported downstream over time to support downstream habitats. Monitor channel and geomorphic characteristics (pebble counts, bulk samples, profiles) at downstream locations, pre and post project.	All permits received. Construction complete. Monitoring started in September 1999.
97-C12	Environmental Water Quality	Evaluation of alternative pesticide use reduction practices	UC Davis	Landscape	\$957,781	\$957,781	\$76,761	\$0	\$746,827	Monitor water quality before and after outreach program to determine efficiency of program.	First Draft of Alternative Practices Matrix complete. Education, outreach and Field Studies ongoing.
98-C01	Habitat Restoration	Twitchell Island Subsidence Study	DWR	Delta	\$3,583,000	\$3,583,000	\$0	\$0	\$0	Evaluate techniques to reverse the subsidence of Delta island habitat. Monitor biomass accretions and deposition of sediment over time, and costs.	Fully executed 5/20/99. All subcontracts signed.

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CALFED No	Category	Project Description	Applicant	Geo Area	Approved Funding	Funds Obligated	Funds Expended	CVPIA Funding	Other Funding	Monitoring	Status
98-C02	Fish Management/Hatchery	Culture of Delta Smelt	UC Davis	Delta	\$194,870	\$194,870	\$143,499	\$0	\$0	Develop culture methods to supply all life stage of delta smelt for research studies. Collect data on larvae size, weight, and food intake for different water types, tank size, and water constituents.	Physical improvements to site, broodfish collection & rotifer culture, larval rearing trials & post-larval field collection complete. Final report due 10/29/99.
98-C03	Habitat Restoration	Hamilton wetlands restoration planning	Calif. Coastal Conservancy and SF BCDC	Suisun Marsh & North Bay	\$1,000,015	\$1,000,015	\$458,923	\$0	\$1,324,000	Restore subsided diked area to upland seasonal and tidal wetland habitats. Monitoring of site physical characteristics (elevation, contours, etc.) and hydraulics. Water quality monitoring (salinity, temperature, and DOJ. Monitor vegetation development (extent, location, composition, and density). Survey of use by fish and wildlife.	Completed the feasibility study, EIR/EIS, Hamilton Conceptual Restoration Plan. Bel Marin Keys feasibility study ongoing.
98-C04	Habitat Restoration	Merced River Ranch acquisition and restoration	DFG	East San Joaquin	\$658,000	\$658,000	\$0	\$0	\$45,500	Protect and enhance riparian, wetland and aquatic habitats, and provide supply of gravel for spawning habitat projects.	Combined with 98-C05 Basso Bridge land acquisition. Merced River Ranch appraisal expected to be completed 11/99.
98-C05	Habitat Restoration	Basso Bridge land acquisition	DFG	East San Joaquin	\$172,500	\$172,500	\$0	\$0	\$0	Protect spawning riffles, and protect and enhance riparian species.	Working with Wildlife Conservation Board to contact property owners and get properties appraised.
98-C06	Environmental Water Quality	Water Quality Criteria for Chlorpyrifos and Diazinon (Designated Action)	DFG	Landscape	\$67,753	\$67,753	\$0	\$0	\$0	Develop water quality criteria for chlorpyrifos and diazinon. Conduct toxicity test on ceriodaphnia and psysa	All toxicity tests and reports complete. Draft final report out for peer review 10/99. Final report due 3/31/00.
98-C07	Environmental Water Quality	Fathead Minnow Toxicity	CVRWQCB	Landscape	\$400,000	\$400,000	\$0	\$0	\$0	Evaluate toxicity and water quality in the Delta. Collect samples quarterly from various river and slough sites in the Delta for subsequent lab testing for contaminants and toxicity (fathead minnow larval growth and survival, ceriodaphnia reproduction)	Draft report summarizing existing data on fathead minnow toxicity completed. Draft workplan completed. Subcontract with UCD for toxicity testing executed.
98-C08	Environmental Water Quality	Algal Toxicity	CVRWQCB	Landscape	\$500,000	\$500,000	\$0	\$0	\$0	Evaluate toxicity and water quality in the Delta. Collect samples quarterly from various river and slough sites in the Delta for subsequent lab testing for contaminants and toxicity.	Subcontract with UCD for toxicity testing executed. Summary report on existing algae toxicity data and workplan in progress.

CALFED No	Category	Project Description	Applicant	Geo Area	Approved Funding	Funds Obligated	Funds Expended	CVPIA Funding	Other Funding	Monitoring	Status
98-C09a	Environmental Water Quality	Sediment Water Quality	DPC	Delta	\$24,000	\$24,000	\$0	\$0	\$0	Determine toxicity criteria and sediment reuse potential to develop a Delta Dredging Reuse Strategy. Will monitor sediment constituents as pilot projects are developed.	Technical Advisory Panels has been selected by DPC. First Meeting scheduled for 11/9/99.
98-C09b	Environmental Water Quality	Sediment Water Quality	DFG	Delta	\$276,000	\$276,000	\$0	\$0	\$0	Same as 98-C09a	Signed task order for year one work. Helped select Technical Advisory Panel.
98-C09c	Environmental Water Quality	Sediment Water Quality	RWQC	Delta	\$200,000	\$200,000	\$0	\$0	\$0	Same as 98-C09a	Signed task order for year one work. Helped select Technical Advisory Panel.
98-C10	Habitat Restoration	CMARP DA	DWR	Landscape	\$800,000	\$800,000	\$0	\$0	\$0	Develop a Comprehensive Monitoring and Research Program for CALFED.	Draft report complete 6/99. Developing "white papers" in partnership with ERP. Wtr Quality Program/CMARP Drinking Wtr Workshop held 8/99. Report describing baseline monitoring elements in progress.
98-C11	Fish Management/Hatchery	Chinook Salmon Movement in the Lower SJR and South Delta	DFG	San Joaquin River	\$285,000	\$285,000	\$0	\$0	\$0	Evaluate fish migration and delays through lower San Joaquin River and south Delta as potentially impacted by South Delta Temporary Barriers, Head of Old River Barrier and/or low DO levels. Track movement of ultrasonic tagged adults.	Due to staff changes and delays in obtaining equipment project will require time extension.
98-C12	Fish Management/Hatchery	Genetic Comparison of Steelhead Stocks in Clear Creek	USFWS	North Sacramento Valley	\$45,493	\$0	\$0	\$0	\$0	Evaluate alternative steelhead stocks for future restocking of Clear Creek. Collect tissue samples for genetic evaluation.	Contract sent to agency for signature 10/25/99.
98-C13	Habitat Restoration	Spawning Areas of Green Sturgeon in the Upper Sacramento River	USFWS	Sacramento River	\$60,801	\$0	\$0	\$0	\$0	Characterization of Green Sturgeon habitat and life history patterns in the upper Sacramento River. Survey of spawning areas.	Contract sent to agency for signature 10/25/99.
98-C14	Fish Management/Hatchery	Monitoring Spring and Winter-run Chinook Salmon and Steelhead in Battle Creek	USFWS	North Sacramento Valley	\$150,000	\$0	\$0	\$0	\$0	Evaluate life history characteristics for spring and winter run chinook and steelhead in Battle Creek. Fish counts, snorkel surveys, juvenile monitoring using screw traps. Genetic data for species.	Contract sent to agency for signature 10/25/99.



CALFED No	Category	Project Description	Applicant	Geo Area	Approved Funding	Funds Obligated	Funds Expended	CVPIA Funding	Other Funding	Monitoring	Status
98-C15	Fish Management/Hatchery	Biological Assessment of Green Sturgeon in the Sacramento-San Joaquin Watershed	UC Davis	Landscape	\$241,000	\$241,000	\$684	\$0	\$0	Identify the biological characteristics of green sturgeon. Behavioral and tolerance limits to temperature ranges for various size fish. Biological examination of reproduction system and function. Genetic data for GS and white sturgeon. Examine Embryo samples to measure developmental process over time and varying river conditions.	Work on all tasks ongoing.
98-C16	Fish Screen/Passage	Developing a Methodology to Accurately Simulate Entrainment of Fish	DFG	Delta	\$200,000	\$0	\$0	\$0	\$0	Evaluate effectiveness of barge sampling in estimating existence of fish at/near diversion locations. Perform fish-friendly pump sampling and diversion net sampling at various times.	Contract at DFG budget office.
99-C01	Habitat Restoration	Cosumnes River Feasibility Study	The Nature Conservancy	Eastside Delta Tributaries	\$400,000	\$0	\$0	\$0	\$0	Feasibility Study of Ecosystem Restoration opportunities on the Cosumnes River.	Working with corps to refine Project Study Plan (PSP) Draft PSP should be submitted for CALFED review 12/21/99. Waiting for completion PSP to finalize their role in implementing the plan.
99-C02	Habitat Restoration	Mokelumne River Feasibility Study	EBMUD	Eastside Delta Tributaries	\$400,000	\$400,000	\$0	\$0	\$0	Feasibility Study of Ecosystem Restoration opportunities on the Mokelumne River.	Working with corps to refine Project Study Plan (PSP) Draft PSP should be submitted for CALFED review 12/21/99.
Summary for 'Contracting Agency' = PROP 204 (32 detail records)											
Sum					\$21,001,825	\$17,360,931	\$4,525,971	\$4,344,000	\$5,628,312		
USBR											
97-B01	Watershed Management	Watershed improvements/sediment stabilization (Deer, Mill, Antelope Creeks)	USFS	Butte Basin	\$371,000	\$371,000	\$144,000	\$0	\$69,000	Existing long-term condition monitoring program in-place	Updating road mapping. Consulted with MNFS. 1/2 mile road removed.
97-B02	Habitat Restoration	Sedimentation movement and availability and monitoring in the Delta	USGS	Delta	\$1,046,200	\$1,046,200	\$242,800	\$0	\$0	Describe the movement and availability of sediment in the Delta, as needed for habitat restoration. Monitor sediment transport (suspended load and bedload) at several locations.	Contract executed 3/16/98 for \$587,000. Contract executed 5/21/98 for \$460,000.

CALFED No	Category	Project Description	Applicant	Geo Area	Approved Funding	Funds Obligated	Funds Expended	CVPIA Funding	Other Funding	Monitoring	Status
97-B03	Habitat Restoration	Liberty Island acquisition	USFWS	Delta	\$8,926,000	\$8,747,000	\$8,747,000	\$25,000	\$0	Protect and restore tidally influenced wetlands, riparian corridors, and upland habitats. Measure distribution of habitats and species populations.	Property acquired 9/99.
97-B04	Habitat Restoration	Acquisition and restoration of Refuge lands (SJLR NWR)	USFWS	San Joaquin River	\$10,647,000	\$10,647,000	\$1,752,000	\$0	\$9,353,000	Protect and restore lands, riparian corridors, and other wetland habitats. Measure distribution of habitats and species populations.	One parcel acquired, appraisals underway on other parcels. Closure expected soon.
97-B05	Habitat Restoration	Bear Creek floodplain restoration demonstration project (SLNWR)	USFWS	San Joaquin River	\$334,000	\$334,000	\$332,000	\$0	\$80,000	Protect and enhance riparian, floodplain and wetland habitats. Measure distribution of habitats and species populations.	Hydraulic modeling underway.
97-B06	Environmental Water Quality	Assessment of organic matter in the habitat and its relationship to the food chain	USGS	Landscape	\$1,440,649	\$1,440,649	\$467,000	\$0	\$0	Evaluate habitat influences on the production and utilization of organic matter as food source in the Delta, and improve modeling capabilities. Obtain or measure food quality and quantity from various locations and habitat types	Contract executed 3/16/98 for \$517,000. Contract executed 7/22/98 for \$833,000. Project underway.
98-B01	Fish Screen/Passage	Richter Brothers screen, Phase 1	Richter Brothers	Sacramento River	\$49,000	\$49,000	\$0	\$0	\$0	Reduce entrainment of outmigrating fish. Measure screen approach, sweep, and bypass flow velocities.	Feasibility Study completed.
98-B02	Fish Screen/Passage	Boeger Family Farm screen - Feasibility Study Phase 1	Boeger Family Farms	Sacramento River	\$15,000	\$15,000	\$13,811	\$0	\$0	Reduce entrainment of outmigrating fish. Measure screen approach, sweep, and bypass flow velocities.	Draft feasibility study completed.
98-B03	Fish Screen/Passage	ACID fish passage	Anderson-Cottonwood Irrigation District	Sacramento River	\$325,000	\$325,000	\$325,000	\$0	\$50,000	Reduce entrainment of outmigrating fish. Measure screen approach, sweep, and bypass flow velocities.	Completed.
98-B05	Environmental Water Quality	Sand and Silt Creek watershed project	Colusa County Resource Conservation District	Colusa Basin	\$598,633	\$598,633	\$46,000	\$0	\$1,508,000	Evaluate different application practices and vegetat conditions on impact to level of surface runoff of OP pesticides and sediments. Water quality and flow measurements in runoff adjacent to sites. Evaluate if stable grade conditions will reduce erosion. Site erosion monitoring, pre and post project.	Baseline data gathered.

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CALFED No	Category	Project Description	Applicant	Geo Area	Approved Funding	Funds Obligated	Funds Expended	CVPIA Funding	Other Funding	Monitoring	Status
98-B07	Environmental Water Quality	Evaluation of selenium sources, levels, and consequences in the Delta	USGS	Delta	\$1,626,826	\$1,588,709	\$533,000	\$0	\$1,190,655	Evaluate sources of selenium at various times and locations. Collect and analyze water column samples. Evaluate impact of selenium on critical prey/indicator species at various times and locations, and relate to impacts on species of concern. Collect and analyze selected prey/indicator species. Measure levels and kinetics in species of concern under controlled uptake conditions.	Project underway.
98-B08	Habitat Restoration	Cache Slough Habitat Enhancement	RD No. 2060	Delta	\$85,000	\$85,000	\$0	\$0	\$0	Restoration of levee using environmentally friendly approaches. Sediment deposition/accretion and topographic surveys, pre and post project. Survey of vegetation survivorship, diversity and growth at various increments of time.	Topographic survey completed.
98-B09	Environmental Water Quality	IPM Partnership to Improve Water Quality in Suisun Bay and Local Creeks	Central Contra Costa Sanitary District	Suisun Marsh & North Bay	\$266,000	\$266,000	\$88,000	\$0	\$191,000	Increase awareness of users to detrimental impacts and mitigations approaches. User survey on participation, value, and product sales pre and post implementation. Reduce the runoff levels as a result of implementation. Concentration of OP pesticides in influent of waste water, and may have urban creek water quality measurements, and compare pre and post project.	Scripted and filmed training video. Trained Master Gardeners.
98-B10	Watershed Management	Inventory of forest road systems, Cat Creek Watershed	USFS	Eastside Delta Tributaries	\$38,000	\$38,000	\$8,000	\$0	\$0	Develop watershed restoration plan to reduce erosion. Monitor aquatic habitat and channel characteristics, water chemistry and species population/use.	Updating road mapping.
98-B11	Fish Screen/Passage	Woodbridge Fish Screen and Passage	Woodbridge Irrigation District	Eastside Delta Tributaries	\$1,575,000	\$1,575,000	\$555,000	\$0	\$0	Increase upstream passage of returning adults. Reduce entrainment of outmigrating fish. Measure screen approach, sweep, and bypass flow velocities.	Draft EIR/EIS completed.
98-B13	Habitat Restoration	Napa River Wetlands Acquisition	Napa County Land Trust	Suisun Marsh & North Bay	\$1,000,000	\$1,000,000	\$910,000	\$0	\$0	Protect and restore native marsh wetland habitat. Monitor vegetation, fish and wildlife populations.	Executed 9/24/98.

CALFED No	Category	Project Description	Applicant	Geo Area	Approved Funding	Funds Obligated	Funds Expended	CVPIA Funding	Other Funding	Monitoring	Status
98-B14	Environmental Water Quality	Bacterial treatment of Selenium in the Panoche Drainage	UC Berkeley	West San Joaquin	\$1,148,326	\$1,148,326	\$278,000	\$0	\$0	Demonstrate the effectiveness of microalgae as a substrate for nitrate and selenium reduction in agricultural discharge water. Treatment effectiveness and operational issues. Costs of process, to estimate costs for full scale operation.	Pilot treatment plants operating.
98-B15	Fish Management/Hatchery	Evaluation of Tagging Data	Northwest Marine Technology Inc	Landscape	\$625,000	\$625,000	\$128,000	\$0	\$0	Evaluate feasibility and benefits for mass marking techniques. Data review on tagging and recovery.	Evaluation reports in progress.
98-B16	Fish Screen/Passage	Battle Creek Screens and Fish Passage	USBR	North Sacramento Valley	\$395,000	\$395,000	\$10,688	\$0	\$0	Increase upstream passage of returning adults over barriers to make habitat available for spawning and rearing. Video observation and radiotag tracking at the CNFH fish ladder. Monitor and estimate populations via snorkel, carcass counts, redd and aerial surveys. Measure relative abundance, distribution and emigration timing of juveniles via screwtrap. Measure and evaluate fish injury with CNFH passage using organosomatic index. Measurement of flow and velocity at various stage heights to determine performance and reliability to design standards. Preclude passage of hatchery fish during their return to the hatchery. Direct observations at weir and upstream; tracking of radio tagged fish. Increase riverine habitat quality and quantity (flow). Reduce entrainment of outmigrating fish. Measure screen approach, sweep, and bypass flow velocities.	Completed topographic survey. Also funded with 97-M02
98-B17	Habitat Restoration	Cosumnes floodplain acquisition and restoration	The Nature Conservancy	Eastside Delta Tributaries	\$3,500,000	\$3,500,000	\$3,500,000	\$0	\$2,193,000	Restore and improve floodplain functions. Restore riparian and wetland vegetation. Monitor vegetation, fish and wildlife populations.	Properties acquired 12/98. Completed
98-B21	Fish Screen/Passage	Anadromous Fish Passage at Clough Dam on Mill Creek	DWR	Butte Basin	\$1,280,000	\$1,280,000	\$0	\$0	\$0	Reduce entrainment of outmigrating fish. Measure screen approach, sweep, and bypass flow velocities.	Agreement being prepared.

CALFED No	Category	Project Description	Applicant	Geo Area	Approved Funding	Funds Obligated	Funds Expended	CVPIA Funding	Other Funding	Monitoring	Status
98-B22	Fish Screen/Passage	Fish Passage Improvement Project at the Red Bluff Diversion Dam	Tehama-Colusa Canal Authority	Sacramento River	\$340,600	\$340,600	\$0	\$0	\$0	Similar to 98-B16	Field study completed.
98-B23	Fish Screen/Passage	Steelhead and Chinook Salmon Fish Passage Barrier Remediation on the Guadalupe River	Natural Heritage Institute et. al.	Outside CALFED Region	\$178,200	\$0	\$0	\$0	\$0	Increase upstream passage of returning adults. Measure physical configuration and velocities. Observation of upstream migration.	Agreement sent 3/16/99.
98-B24	Fish Screen/Passage	ACID Fish Passage and Fish Screen Improvement Project, Phase II, Final Design	Anderson-Cottonwood Irrigation District	Sacramento River	\$860,000	\$860,000	\$860,000	\$0	\$0	Protect and restore tidally influenced wetlands, riparian corridors, and upland habitats	Complete.
98-B25	Fish Screen/Passage	Cosumnes River Salmoid Barrier Program Fishery	Foundation of California	Eastside Delta Tributaries	\$188,255	\$188,255	\$0	\$0	\$188,255	Increase upstream passage of returning adults. Pre and Post project monitoring of spatial and temporal spawning distribution and spawning habitat.	Permits submitted.
98-B26	Fish Screen/Passage	Boeger Family Farm Fish screen Phase II: Construction	Boeger Family Farms	Sacramento River	\$139,500	\$0	\$0	\$0	\$139,500	Reduce entrainment of outmigrating fish. Measure screen approach, sweep, and bypass flow velocities.	Agreement being prepared.
98-B27	Fish Screen/Passage	Hastings Tract Fish Screen Phase II: Construction	Hastings Island Land Company	Delta	\$271,250	\$0	\$0	\$0	\$271,750	Reduce entrainment of outmigrating fish. Measure screen approach, sweep, and bypass flow velocities.	Agreement being prepared.
98-B28	Fish Screen/Passage	City of Sacramento Fish Screen Replacement Project Phase 2 - Design	City of Sacramento	Sacramento River	\$654,500	\$0	\$0	\$745,000	\$0	Reduce entrainment of outmigrating fish. Measure screen approach, sweep, and bypass flow velocities.	Agreement being prepared.
98-B29	Fish Screen/Passage	American Basin Fish Screen and Habitat Improvement Project	Natomas Mutual Water Company	Sacramento River	\$200,000	\$0	\$0	\$200,000	\$0	Reduce entrainment of outmigrating fish. Measure screen approach, sweep, and bypass flow velocities.	Agreement being prepared.
98-B30	Education	San Joaquin Valley Salmonids in the Classroom Program Enhancement	DFGEast San Joaquin	San Joaquin River	\$3,000	\$0	\$0	\$0	\$0	Increase student awareness of issues and needs of aquatic and terrestrial natural resources.	Executed.
98-B31	Education	Traveling Film Festival/Heron Booth/Video Archive	Independent Documentary Group	Landscape	\$54,000	\$54,000	\$54,000	\$0	\$0	Increase public awareness of issues and needs of functional river system.	Exhibits in several locations have occurred.
98-B32	Education	Environmental Agriculture Conferences and Field Tours	Committee for Sustainable Agriculture	Landscape	\$28,000	\$28,000	\$14,000	\$0	\$0	Increase farmer awareness of issues and needs of functional river system.	Two conferences held
98-B33	Education	Sacramento River, Headwaters to the Ocean, Public Information and Education	Sacramento River Discovery Center	Sacramento River	\$49,640	\$49,640	\$21,907	\$410,000	\$1,082,500	Increase public awareness of issues and needs of functional river system.	Bird monitoring program expanded

CALFED No	Category	Project Description	Applicant	Geo Area	Approved Funding	Funds Obligated	Funds Expended	CVPIA Funding	Other Funding	Monitoring	Status
98-B34	Education	Discover the Flyway	Yolo Basin Foundation	Delta	\$49,000	\$49,000	\$0	\$0	\$0	Increase student awareness of wetlands and wildlife issues in the Yolo Basin.	Expanded program by 2000 students per year.
98-B35	Education	The Butte Creek Watershed Educational Workshops and Field Tours Series	CSU, Chico	Butte Basin	\$33,000	\$33,000	\$0	\$0	\$0	Increase public awareness of issues and needs of aquatic and terrestrial natural resources.	Initial workshop held.
98-B36	Education	Bay-Delta Environmental Restoration Education Program	Water Education Foundation	Landscape	\$40,000	\$40,000	\$0	\$0	\$0	Increase public awareness of environmental issues in the Bay-Delta.	23 reporters taken on tour.
98-B37	Education	The Virtual Science Center and Hands-on Learning Programs	The Delta Science Center at Big Break	Suisun Marsh & North Bay	\$0	\$0	\$9,598	\$0	\$0	Increase public awareness of environmental issues in the Bay-Delta.	Project cancelled.
98-B38	Education	Water Hyacinth Education Program	Sacramento Regional County Sanitation District	Delta	\$9,600	\$0	\$0	\$0	\$0	Increase public awareness of issues related to release of hyacinth.	Flyer prepared.
98-B39	Education	Water Challenge 2010	San Francisco Bay Model Visitor Center, USACE	Landscape	\$64,500	\$64,500	\$0	\$0	\$15,000	Increase public awareness of environmental and water management issues in the Bay-Delta.	Executed 3/5/99.
98-B40	Education	Tuolumne River Natural Resources Program	City of Modesto	East San Joaquin	\$55,255	\$55,255	\$0	\$0	\$0	Increase public awareness of issues and needs of river system environment.	Design concept under refinement
99-B01	Fish Screen/Passage	Battle Creek Salmon and Steelhead Restoration Project	PG&E	North Sacramento Valley	\$28,000,000	\$28,000,000	\$361,000	\$0	\$0	Increase upstream passage of winter-run salmon and spring-run salmon	Contract being prepared. Program supervisor hired.
99-B02	Fish Screen/Passage	Lower Butte Creek Project Phase II	Ducks Unlimited, Inc.	Butte Basin	\$775,000	\$0	\$0	\$0	\$0	Increase upstream passage of returning adult s. Reduce entrainment of outmigrating fish.	Contract being prepared. MOU prepared.
99-B03	Fish Screen/Passage	ACID Fish Passage and Fish Screen Improvement Project, Phase III	Anderson-Cottonwood Irrigation District	Sacramento River	\$5,253,000	\$5,100,000	\$0	\$0	\$0	Increase upstream passage of returning adults. Reduce entrainment of outmigrating fish. Measure screen approach, sweep, and bypass flow velocities. Evaluate the impact of shallow water restoration actions on water quality. Collect and conduct physical/chemical analysis of water and soil samples.	Contract being prepared.
99-B04	Habitat Restoration	Merced River Salmon Habitat Enhancement; Lower Stone	DWR	East San Joaquin	\$130,000	\$0	\$0	\$0	\$0	Reduce entrainment of outmigrating fish. Measure temperature and fish distribution and abundance.	Contract being prepared.
99-B05	Habitat Restoration	Merced River Salmon Habitat Enhancement; Ratzlaff Reach	DWR	East San Joaquin	\$1,633,000	\$0	\$0	\$0	\$0	Same as 99-B04	Contract being prepared. Project underway.

CALFED No	Category	Project Description	Applicant	Geo Area	Approved Funding	Funds Obligated	Funds Expended	CVPIA Funding	Other Funding	Monitoring	Status
99-B06	Environmental Water Quality	Assessment of Ecological and Human Health Impacts of Mercury in the Bay-Delta Watershed	CSU, San Jose	Landscape	\$3,800,000	\$0	\$0	\$0	\$710,000	Determine bioavailable sources of mercury in the Bay-Delta Watershed. Obtain data on mercury levels in fish and complete pilot mine remediation feasibility studies.	Contract being prepared.
99-B07	Fish Screen/Passage	Fish Passage Improvement Project at the Red Bluff Diversion Dam	Tehama-Colusa Canal Authority	Sacramento River	\$1,030,000	\$0	\$0	\$0			Contract being prepared.
99-B08	Fish Screen/Passage	Improve Upstream Ladder & Barrier Weir @Coleman Nat'l Fish Hatchery at Battle Creek	USFWS	North Sacramento Valley	\$1,713,302	\$0	\$0	\$0			Contract being prepared.
99-B09	Habitat Restoration	Development of Implementation Plan for Lower Yuba River Anadromous Fish Habitat Restoration	Surface Water Resources, Inc.	Feather River & Sutter Basin	\$176,130	\$0	\$0	\$0			Contract being prepared.
99-B10	Environmental Water Quality	Species & Community Profiles of the SF Bay Area Wetlands Ecosystem Goals Project	Friends of S.F. Estuary	Suisun Marsh & North Bay	\$45,320	\$0	\$0	\$0			Contract being prepared.
99-B11	Habitat Restoration	South Napa River Tidal Slough & Floodplain Restoration Project	City of American Canyon	Suisun Marsh & North Bay	\$1,565,600	\$0	\$0	\$0			Contract being prepared.
99-B12	Habitat Restoration	Riparian Corridor Acquisition & Restoration Assessment	USBLM	Sacramento River	\$2,240,250	\$0	\$0	\$0	\$2,000,000		Contract being prepared.
99-B13	Habitat Restoration	Understanding Tidal Marsh Restoration Processes & Patterns	Univ. of Washington	Delta	\$1,073,513	\$0	\$0	\$0			Contract being prepared.
99-B14	Watershed Management	Biological Ag Systems in Cotton-BASIC-Reducing Synthetic Pesticides & Fertilizers in the N. SJ Vly	Sustainable Cotton Project	Landscape	\$473,800	\$0	\$0	\$0			Contract being prepared.
99-B15	Watershed Management	Douglas/Long Canyon Paired - Watershed Project	Placer Co Water Agency	American River Basin	\$86,108	\$0	\$0	\$0			Contract being prepared.
99-B16	Environmental Water Quality	Determination of the Causes of Dissolved Oxygen Depletion in the SJ River	DWR	San Joaquin River	\$892,400	\$0	\$0	\$0			Contract being prepared.
99-B17	Environmental Water Quality	Dissolved Organic Carbon Release from Delta Wetlands, Part 1	USGS	Delta	\$1,434,449	\$0	\$0	\$0			Contract being prepared.
99-B18	Introduced & Undesirable Species	Evaluation of Potential Impacts of Chinese Mitten crab on Benthic Comm. in the Delta	DWR	Delta	\$152,233	\$0	\$0	\$0			Contract being prepared.

CALFED No	Category	Project Description	Applicant	Geo Area	Approved Funding	Funds Obligated	Funds Expended	CVPIA Funding	Other Funding	Monitoring	Status
99-B19	Fish Management/Hatchery	Health Monitoring of Hatchery & Natural Fall-run Chinook in SJ River	USFWS	San Joaquin River	\$38,996	\$0	\$0	\$0			Contract being prepared.
99-B20	Education	Sacramento River Discovery Center	Sacramento River Discovery Center	Landscape	\$39,552	\$0	\$0	\$0			Contract being prepared.
99-B21	Education	Estuary Action Challenge Environmental Education Project	Earth Island Institute	Landscape	\$51,500	\$0		\$0			Contract being prepared.
99-B22	Education	Water Challenge 2010 Exhibit	USCOE	Landscape	\$52,015	\$0	\$0	\$0			Contract being prepared.
99-B23	Education	The Learning Watershed Project	American River Watershed Institute	American River Basin	\$56,907	\$0	\$0	\$0			Contract being prepared.
99-B24	Education	Traveling Film Festival Exhibit	Independent Documentary Group	Landscape	\$51,500	\$0	\$0	\$0			Contract being prepared.
99-B25	Education	River Studies Center Exhibits & Programs	SJ River Parkway & Conservation Trust	San Joaquin River	\$70,467	\$0	\$0	\$0			Contract being prepared.
99-B26	Education	1999/2000 Bay-Delta Education Program	Water Education Foundation	Landscape	\$33,269	\$0	\$0	\$0			Contract being prepared.
99-B27	Education	Watershed Educational Training	Colusa County Resource Conservation District	Landscape	\$13,390	\$0	\$0	\$0			Contract being prepared.
99-B29	Environmental Water Acquisition	San Joaquin River Pilot Project	Friant Water Users Authority	San Joaquin River	\$2,575,000	\$2,575,000	\$0	\$0	\$0		Contract executed.
99-B30	Environmental Water Acquisition	Water Acquisition	Oakdale & S. San Joaquin I.D.	East San Joaquin	\$3,090,000	\$0	\$0	\$0	\$0		Contract being prepared.
Summary for 'Contracting Agency' = USBR (69 detail records)											
Sum					\$95,056,635	\$72,511,767	\$19,400,804	\$1,380,000	\$19,041,660		
USCOE											
99-A01	Habitat Restoration	Prospect Island Habitat Protection Project		Delta	\$2,000,000	\$2,000,000	\$1,689,000	\$0	\$0	Repair levee breach and pump out island	Project complete.
99-A02	Habitat Restoration	Flood Control Bypass Habitat Program		Delta	\$379,321	\$0	\$12,000	\$0	\$0	CALFED has identified this program to fund Flood Control Bypass habitat projects. They are now developing a strategy for implementation. \$1,200,000 total.	Developing strategy. One Project under this program select through the current PSP. (99-A01)
99-A01	Habitat Restoration	Inundation of a Section of the Yolo Bypass to Restore Sacramento Splittail & Other Native Species	Natural Heritage Institute	Delta	\$820,679	\$0	\$0	\$0	\$0		Contract being prepared



CALFED No	Category	Project Description	Applicant	Geo Area	Approved Funding	Funds Obligated	Funds Expended	CVPIA Funding	Other Funding	Monitoring	Status
99-A02	Habitat Restoration	Prospect Island Monitoring Project	DWR	Delta	\$915,000	\$0	\$0	\$0	\$0	Restore 1,300 acres of shallow water habitat. Monitor fish, wildlife, water quality, vegetation, sediments, nutrients and benthic communities.	Contract being prepared
Summary for 'Contracting Agency' = USCOE (4 detail records)											
Sum					\$4,115,000	\$2,000,000	\$1,701,000	\$0	\$0		
USEPA											
97-E01	Watershed Management	Watershed Plan (Big Chico Creek)	Big Chico Creek Watershed Alliance	Butte Basin	\$422,830	\$422,830	\$169,132			Reduce impacts of past and ongoing land use practices to enhance aquatic habitats. Conduct riparian and geomorphic surveys, pre and post project.	\$127,517 will be obligated in April. EPA watershed funds.
97-E02	Watershed Management	Watershed Planning (Deer Creek)	Deer Creek Watershed Conservancy, CSU Chico	Butte Basin	\$196,554	\$196,554	\$78,622		\$231,000	Reduce land use practices detrimental to aquatic environments. Monitor water quality.	Executed.
98-E01	Watershed Management	Napa River Watershed	Napa County Resource Conservation District	Suisun Marsh & North Bay	\$252,000	\$252,000	\$213,317	\$0	\$0	Protect and enhance the riparian and riverine habitats. Monitor habitat characteristics, geomorphology and bank stability, flow/runoff, species assessments, and water quality. Facilitate broadbased local stakeholder group in development of watershed plan. Develop river model to assess alternative scenarios. Collect flow and channel/geomorphology data.	Executed 5/29/98.
98-E02	Watershed Management	Sonoma Creek Watershed	Southern Sonoma County Resource Conservation District	Suisun Marsh & North Bay	\$302,000	\$302,000	\$115,828	\$0	\$0	Protect and enhance the riparian and riverine habitats. Monitor riverine conditions: gravel, temperature. Riparian monitoring and non native control. Implement environmentally-responsible vineyard management practices. Monitor water quality and habitat characteristics. Increase public awareness of issues and needs of aquatic and terrestrial natural resources. Increase upstream passage of returning adults.	Executed 5/29/98.
98-E03	Habitat Restoration	Regional Wetlands Goals Project	San Francisco Estuary Institute	Suisun Marsh & North Bay	\$76,000	\$76,000	\$0	\$0	\$200,000	Evaluate restoration and rehabilitation needs of region.	Completed. Final report completed

CALFED No	Category	Project Description	Applicant	Geo Area	Approved Funding	Funds Obligated	Funds Expended	CYPIA Funding	Other Funding	Monitoring	Status
98-E04	Watershed Management	Petaluma River Watershed Restoration Program	Southern Sonoma County Resource Conservation District	Suisun Marsh & North Bay	\$220,000	\$220,000	\$11,218	\$0	\$0	Evaluate and implement restoration and rehabilitation needs of the region.	Completed review of on-going projects on Petaluma River. Watershed Council formed & Enhancement Plan published.
98-E05	Watershed Management	Cottonwood Creek Watershed Group Formation	Cottonwood Creek Watershed Group	Cottonwood Creek	\$161,000	\$161,000	\$20,413	\$0	\$0	Facilitate broadbased local stakeholder group in development of watershed plan. Evaluate restoration needs of region.	Watershed coordinator hired.
98-E06	Watershed Management	Battle Creek Watershed Stewardship	Battle Creek Watershed Conservancy	North Sacramento Valley	\$145,000	\$145,000	\$0	\$0	\$0	Facilitate broadbased local stakeholder group in development of watershed plan. Improve watershed practices to reduce detrimental impacts on aquatic habitats.	Hired program manager.
98-E07	Watershed Management	Local Watershed Stewardship: Steelhead Trout Plan	Friends of Corte Madera Creek Watershed	Outside CALFED Region	\$47,500	\$47,500	\$19,427	\$0	\$0	Develop steelhead restoration plan. Collect fish habitat and population information and thermograph data.	Developed QA/QC plan. Installed 29 thermographs.
98-E08	Watershed Management	Cold Water Fisheries and Water Quality Element	City of San Jose	Outside CALFED Region	\$200,000	\$200,000	\$0	\$0	\$0	Evaluate restoration needs of region.	EPA executed a cooperative agreement with NFWF in February to manage these 14 watershed projects. A NFWF subagreement is expected.
98-E09	Watershed Management	Merced River Corridor Restoration Plan	Stillwater Sciences & Merced Co.	East San Joaquin	\$300,000	\$300,000	\$120,295	\$0	\$0	Facilitate broadbased local stakeholder group in development of watershed plan. Evaluate restoration needs of region.	Prepared draft reports and began mapping analysis.
98-E10	Watershed Management	South Yuba River Coordinated Watershed Management Plan	DPR	Feather River & Sutter Basin	\$264,000	\$264,000	\$0	\$0	\$0	Facilitate broadbased local stakeholder group in development of watershed plan. Evaluate restoration needs of region.	Recruiting project manager. Met with agencies.
98-E11	Watershed Management	Watershed Restoration Strategy for the Yolo Bypass	Yolo Basin Foundation, Inc.	Delta	\$244,188	\$244,188	\$54,610	\$0	\$0	Facilitate broadbased local stakeholder group in development of watershed plan. Evaluate restoration needs of region.	First watershed workgroup meeting has occurred.
98-E12	Watershed Management	Proposal to Develop Local Watershed Stewardship Plan for the Lower Mokelumne River	San Joaquin County Resource Conservation District	Eastside Delta Tributaries	\$159,000	\$159,000	\$62,724	\$0	\$0	Facilitate broadbased local stakeholder group in development of watershed plan. Evaluate restoration needs of region.	Watershed coordinator hired.
98-E13	Watershed Management	Union School Slough Watershed Improvement Program	National Audubon Society - California	Yolo Basin	\$636,000	\$636,000	\$51,204	\$0	\$0	Develop and implement riparian restoration project on farms. Water quality and habitat surveys	Program manager & restoration ecologist hired.

<i>CALFED No</i>	<i>Category</i>	<i>Project Description</i>	<i>Applicant</i>	<i>Geo Area</i>	<i>Approved Funding</i>	<i>Funds Obligated</i>	<i>Funds Expended</i>	<i>CVPIA Funding</i>	<i>Other Funding</i>	<i>Monitoring</i>	<i>Status</i>
98-E14	Watershed Management	American River Integrated Watershed Stewardship Strategy	Placer County Resource Conservation District	American River Basin	\$220,750	\$220,750	\$15,507	\$0	\$0	Evaluate restoration needs of region.	Recruiting staff. Meeting with stakeholders and agencies.
98-E15	Watershed Management	Sulphur Creek Coordinated Resource Management Planning Group	Sacramento Watersheds Action Group	North Sacramento Valley	\$23,828	\$23,828	\$3,598	\$0	\$0	Facilitate broadbased local stakeholder group in implementation of restoration activities.	Initial meetings have occurred. Presentation made to City of Redding Planning Commission
98-E16	Watershed Management	Lower Putah Creek Watershed Stewardship Program	Solano County, Department of Environmental Management	Yolo Basin	\$100,500	\$100,500	\$0	\$0	\$0	Facilitate broadbased local stakeholder group in development of watershed plan. Evaluate restoration and rehabilitation needs of region.	EPA executed a cooperative agreement with NFWF in February to manage these 14 watershed projects. A NFWF sub-agreement is expected.
98-E17	Watershed Management	Alhambra Creek Watershed CRMP Program	Contra Costa Resource Conservation District	Suisun Marsh & North Bay	\$138,500	\$138,500	\$28,262	\$0	\$0	Facilitate broadbased local stakeholder group in development of watershed plan. Evaluate and implement restoration and rehabilitation needs of region.	Started GIS mapping analysis.
<i>Summary for 'Contracting Agency' = USEPA (19 detail records)</i>											
<b>Sum</b>					<b>\$4,109,650</b>	<b>\$4,109,650</b>	<b>\$964,157</b>	<b>\$0</b>	<b>\$431,000</b>		
<b>USFWS</b>											
98-F01	Watershed Management	Butte Creek Watershed	CSU, Chico	Butte Basin	\$261,300	\$261,300	\$19,223	\$0	\$0	Evaluate erosion sediment sources and implement corrective actions. Inventory road infrastructure and erosion features and changes over time. Protection and enhancement of riparian corridors and floodplain habitats and processes. Collect geomorphic data (channel incisions, gravel deposits, terraces, etc.) in channel and riparian characterization via surveys. Increase awareness of issues and needs of watershed health.	Executed.
98-F02	Watershed Management	Butte Creek Watershed Coordinator Assistant	Butte Creek Watershed Conservancy	Butte Basin	\$41,445	\$41,445	\$0	\$0	\$0	Improve coordination of watershed groups and restoration activities.	Contract executed.
98-F03	Habitat Restoration	Butte Creek acquisition and riparian restoration	CSU, Chico	Butte Basin	\$125,000	\$125,000	\$125,000	\$0	\$0	Restore and improve floodplain functions. Restore riparian and wetland vegetation. Monitor vegetation, fish and wildlife populations.	Property acquired 12/98 also funded with 97-N06.

CALFED No	Category	Project Description	Applicant	Geo Area	Approved Funding	Funds Obligated	Funds Expended	CVPIA Funding	Other Funding	Monitoring	Status
98-F04	Habitat Restoration	Lower Mill Creek riparian restoration	Mill Creek Conservancy, The Nature Conservancy	Butte Basin	\$29,730	\$29,730	\$0	\$0	\$0	Restore and improve floodplain functions. Restore riparian and wetland vegetation. Monitor vegetation, fish and wildlife populations.	Property acquired 12/98. Also funded with 97-N08.
98-F06	Habitat Restoration	Tuolumne River setback levees and channel restoration	Turlock Irrigation District	East San Joaquin	\$655,700	\$655,700	\$0	\$0	\$0	Improve and restore spawning habitat and durability. Monitor geomorphology (pebble counts, tracer rocks, stabilization) and channel characteristics, pre and post project and after flow events. Conduct redd counts and other use surveys. Conduct tracer rock evaluations. Improve survival of outmigrating smolts due to predation. Measure conversion of predator habitat (temperature, flow, transit, channel cross section). Survey predator population density. Conduct mark-recapture of smolts. Improve and restore riparian communities. Monitor composition, distribution, and survival of plantings, pre and post project.	Also funded with 97-M09. Design 90% complete.
98-F07	Habitat Restoration	Grayson River Ranch Perpetual Easement and Restoration	East Stanislaus RCD and Friends of the Tuolumne	East San Joaquin	\$732,000	\$732,000	\$0	\$0	\$311,000	Protect and enhance riparian and floodplain habitats. Measure species diversity and populations compared with desired conditions.	Nearing completion of Perpetual Easement acquisition.
98-F08	Habitat Restoration	Hill Slough West Habitat Demonstration Project - Phase I	DFG	Suisun Marsh & North Bay	\$200,000	\$200,000	\$0	\$0	\$0	Restore tidal action of seasonal and permanent wetlands. Survey fishery and wildlife use and habitats. Survey vegetation composition, growth, trends and recruitment.	CDFG writing RFP to hire consultant to do topographic surveys & address hydrologic issues.
98-F09	Habitat Restoration	Rhode Island Floodplain Management and Habitat Restoration - Phase 1	DFG	Delta	\$25,000	\$25,000	\$0	\$0	\$0	Restore and improve floodplain functions and shallow water and riparian habitat. Survey of fish and avian use. Survey of habitat conditions.	Executed 4/9/99
98-F10	Habitat Restoration	Nelson Slough Wildlife Area Restoration Demonstration Project - Phase 1 & 2	DFG	Feather River & Sutter Basin	\$256,476	\$0	\$0	\$0	\$10,000	Evaluate effectiveness of passive floodplain functioning to restore riparian and wetland vegetation. Monitor natural colonization of vegetation; fish use of floodplain; and fish stranding.	CDFG withdrew proposal (per Ron Remple), 6/29/99.

CALFED No	Category	Project Description	Applicant	Geo Area	Approved Funding	Funds Obligated	Funds Expended	CVPIA Funding	Other Funding	Monitoring	Status
98-F11	Habitat Restoration	Phase 3 - Merced River Salmon Habitat Enhancement	DFG	East San Joaquin	\$2,433,759	\$2,433,759	\$0	\$2,433,759	\$790,000	Monitor physical processes, abundance of fish, revegetation and predation. Topo surveys, fish sampling. Mark/recapture, photo survey, population census.	Executed
98-F12	Habitat Restoration	Stone Lakes NWR Land Acquisitions	USFWS	Delta	\$1,900,000	\$1,900,000	\$0	\$0	\$0	Protect and restore tidal and seasonal wetlands, riparian corridors and upland habitats. Survey for fish and wildlife use.	Funds transferred to USFWS, Sacramento Realty Office. Implementation begun. Offer made on one property 3/3/99.
98-F13	Habitat Restoration	Petaluma Marsh Expansion Project - Marin County	Marin Audubon Society	Suisun Marsh & North Bay	\$352,135	\$352,135	\$0	\$0	\$525,885	Protect and restore tidal marsh. Evaluate fish and avian use, sedimentation and other channel/geomorphic processes, vegetation and habitat characterization	Updated appraisal report shows property value of \$544,400. Finalizing restoration design.
98-F14	Habitat Restoration	South Napa River Wetlands Acquisition and Restoration Program	Napa County Land Trust	Suisun Marsh & North Bay	\$431,000	\$431,000	\$0	\$0	\$65,000	Recolonization of native plants, plant surveys and survival rates. Monitor tidal and over bank flows and sedimentation.	Coordinating with Flood Control District regarding EIR for acquisition. Met with locals and attended public hearing regarding acquisitions.
98-F15	Habitat Restoration	Lower Clear Creek Floodway Restoration Project - Phase 2	Western Shasta Resource Conservation District	North Sacramento Valley	\$3,559,596	\$3,559,596	\$2,954	\$500,000	\$0	Improve spawning and rearing habitat and its durability. Survey spawning habitats and spawning/rearing use. Conduct tracer rock evaluations across different locations. Monitor flows and geomorphic and channel characteristics over time. Reduce stranding of outmigrating/rearing fish. Visual, seining and electrofishing survey following flood events. Restore natural functioning riparian communities. Map and characterize the composition of vegetation communities and natural recruitment.	Executed.
98-F16	Habitat Restoration	Fern-Headreach Tidal Perennial Aquatic and Shaded River Aquatic Conservation Project	Thomas Luckey (L & L Farms, LLC)	Delta	\$425,000	\$425,000	\$0	\$0	\$0	Project will protect riparian and tidal shallow water habitat. Survey for fish and wildlife use.	Property Approval, acquisition and Contaminant surveys being completed.
98-F17	Habitat Restoration	Benicia Waterfront Marsh Restoration - Phase I	City of Benicia	Suisun Marsh & North Bay	\$59,000	\$59,000	\$0	\$0	\$0	Restore tidal action to salt marsh habitat to provide tidal saline emergent wetlands. Survey target wetland vegetation and removal of exotic plants. Survey for fish and wildlife use.	Contracts being executed with consultants.

CALFED No	Category	Project Description	Applicant	Geo Area	Approved Funding	Funds Obligated	Funds Expended	CVPIA Funding	Other Funding	Monitoring	Status
98-F18	Habitat Restoration	Floodplain Acquisition, Management, and Monitoring on the Sacramento River	The Nature Conservancy, WCB, and others.	Sacramento River	\$1,000,000	\$1,000,000	\$0	\$0	\$0	Develop projectwide monitoring to assess channel meander and habitat restoration. Survey geomorphologic processes and floodplain habitat response.	Executed.
98-F19	Habitat Restoration	Cosumnes River Acquisition, Restoration Planning and Demonstration	The Nature Conservancy	Eastside Delta Tributaries	\$750,000	\$750,000	\$0	\$0	\$0	Acquire and restore floodplain and wetland habitat and functions. Monitor habitat characteristics and species use.	Executed.
98-F20	Habitat Restoration	Deer and Mill Creeks Acquisition and Enhancement	The Nature Conservancy	Butte Basin	\$1,000,000	\$1,000,000	\$0	\$200,000	\$0	Increase native riparian growth adjacent to the river. Measure tree density and species composition and height, pre and post project.	Acquisition negotiations initiated.
98-F21	Habitat Restoration	Lower San Joaquin River Floodplain Protection and Restoration Project	USFWS, San Luis National Wildlife Refuge	San Joaquin River	\$1,100,000	\$1,100,000	\$0	\$0	\$4,799,000	Protect and enhance riparian and floodplain habitats. Baseline habitat and wildlife surveys. Habitat mapping.	Funds transferred to USFWS, San Luis NWR Complex. Implementation begun. Appraisals made and negotiations underway to acquire
98-F22	Habitat Restoration	Biological Restoration and Monitoring in the Suisun Marsh/North San Francisco Bay Ecological Zone	CSU, Hayward	Suisun Marsh & North Bay	\$772,667	\$772,667	\$55,374	\$0	\$243,812	Restore emergent and immersed marshland. Monthly monitoring for sedimentation, water quality, vegetation, fish and avian use and populations, and planktonic foods.	Agreement signed by Cooperator 1/4/99. Implementation begun.
98-F23	Habitat Restoration	South Napa River Tidal Slough and Floodplain Restoration Project	City of American Canyon	Suisun Marsh & North Bay	\$1,455,000	\$1,455,000	\$12,691	\$0	\$718,000	Monitor return of tidal flows, recolonization of native plants, survival of riparian vegetation and fish utilization.	Acquisition Appraisal Report sent to Realty for review on 6/22/99. Wetlands delineation completed.
98-F24	Habitat Restoration	Butte Creek Riparian Restoration Demonstration	CSU, Chico	Butte Basin	\$76,348	\$76,348	\$693	\$0	\$0	Monitor revegetation success. Bioassessment of benthic invertebrates. Water quality monitoring. Wildlife inventories.	Planning and designing for restoration, trails and signing underway using Research Foundation employees.
98-F25	Introduced & Undesirable Species	Exotic Species Control Program	USFWS	Landscape	\$365,988	\$365,988	\$33,836	\$0	\$0	CALFED has developed this program to identify and implement projects addressing exotic species control.	Seven projects selected 99-F05-11.
99-F01	Habitat Restoration	Restore Special Run Pool 10 Reach	Turlock Irrigation District	East San Joaquin	\$165,000	\$0	\$0	\$356,000	\$0	Monitor physical habitat changes, survival of riparian vegetation and fish population changes, post restoration.	Contract being prepared.
99-F02	Habitat Restoration	Restore MJ Ruddy Reach	Turlock Irrigation District	East San Joaquin	\$3,332,000	\$0	\$0	\$3,079,000	\$0	Monitor physical habitat changes, survival of riparian vegetation and fish population changes, post restoration.	Contract being prepared.
99-F03	Habitat Restoration	Restore habitat on McCormack-Williamson levees	The Nature Conservancy	Delta	\$860,000	\$860,000	\$0	\$0	\$250,000	Monitor riparian vegetation, wildlife, avian and fish resources.	Contract being prepared.

CALFED No	Category	Project Description	Applicant	Geo Area	Approved Funding	Funds Obligated	Funds Expended	CVPIA Funding	Other Funding	Monitoring	Status
99-F04	Habitat Restoration	McCormack-Williamson Tract Acquisition	The Nature Conservancy	Delta	\$5,350,000	\$5,350,000	\$5,200,000	\$0	\$0	See 99-F03	Property acquired 9/99.
99-F05	Introduced & Undesirable Species	Non-native Invasive Species Advisory Council	USFWS	Landscape	\$50,000	\$0	\$0	\$0			Contract being prepared.
99-F06	Introduced & Undesirable Species	Reducing Risk of Importation & Distribution on Non-native Invasive Species Through Outreach & Education	UC Davis	Landscape	\$105,466	\$0	\$0	\$0			Contract being prepared.
99-F07	Introduced & Undesirable Species	Zebra Mussel Detection & Outreach Project	DWR	Landscape	\$100,000	\$0	\$0	\$0			Contract being prepared.
99-F08	Introduced & Undesirable Species	Purple Loosestrife Prevention, Detection & Control in the Sac/SJ Delta & Associated Hydrologic Units	DFA	Landscape	\$201,306	\$0	\$0	\$0			Contract being prepared.
99-F09	Introduced & Undesirable Species	Introduced Spartina Eradication Project	California Conservation Conservancy	Landscape	\$250,000	\$0	\$0	\$0			Contract being prepared.
99-F10	Introduced & Undesirable Species	Practical Guidebook to Prevent & Control for Non-native Invasive Plants in Shallow Water Habitats of the Bay-Delta Ecosystem	SFEI	Landscape	\$76,750	\$0	\$0	\$0			Contract being prepared.
99-F11	Introduced & Undesirable Species	Effects of Introduced Clams on the Food Supply of Bay-Delta Fishes	SF State University	Landscape	\$100,490	\$0	\$0	\$0			Contract being prepared.
Summary for 'Contracting Agency' = USFWS (35 detail records)											
Sum					\$28,598,156	\$23,960,668	\$5,449,771	\$6,566,759	\$7,712,697		
Grand Total					\$215,730,755	\$169,291,518	\$55,553,199	\$32,580,992	\$59,587,291		

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